

CHAPTER 1
REINFORCEMENT

Early Microscopes

BLM 1-3

Goal • Use this page to review your knowledge of early microscopes and what scientists saw through them.

Think About It

- Before the invention of the microscope, people did not know about the world of cells and organisms too small to be seen by the unaided human eye. Microscopes have given us a way to view the building blocks of all life.

What to Do

- Read pages 7–8 of *SCIENCEPOWER*™ 8. Answer the questions below in full sentences.

1. What is the function of a microscope?

They magnify objects. (bending light through a lens).

2. Who was Anton von Leeuwenhoek?

He was a Dutch amateur Scientist. (Made microscopes +

3. Why is he famous?

Saw single-celled organisms.

He made microscopes, saw blood cells, and saw single-celled organisms.

4. What were some of the specimens that Anton von Leeuwenhoek first observed?

He viewed: blood, pond water, mouth swabs.

5. What is an animalcule?

It is a single-celled organism.

6. What was Anton von Leeuwenhoek's microscope made of?

It was made of a single, small lens.

7. Which common scientific item used today can be compared to Leeuwenhoek's first microscope?

A magnifying glass is similar to his microscope.

8. Why are microscopes useful tools for scientists?

They allow us to see items smaller than $\frac{1}{10}$ of a mm.
(living cells)

9. What kind of microscope do you use in your school?

We have compound light microscopes.